Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	0.00	Rating **	Α	Issue No.		6	
LM End	0.00	Issue Type +	Ма	Location *	* N/A		
Catagonia Earthen Levee			GPS La	atitud	e/Longitude		
Category				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals o						0
DWR ID DWR_RD0900_01_s _ 2013_6							
		Comn	nent Cod	de			
							_
		Inspecto	or Comm	nent			
This LMA	has the up	dated O&M m	anuals f	or the distri	ct.		

No Photos

Issue No. LM Start 0.00 Rating ** Α 12 Location * Issue Type + N/A 0.00 Ma LM End Earthen Levee GPS Latitude/Longitude Category Start End Emergency Supplies & Item Equipment DWR RD0900 01 s 2013 12 DWR ID Comment Code Inspector Comment

No Photos

This LMA has an adequate amount of sandbags, sand and various flood fight supplies in their possession.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	0.00	Rating **	Α	Issue No.		16	
LM End	0.00	Issue Type +	Ma	Location *			
Category Earthen Levee			GPS La	atitud	le/Longitude		
Calegory				Start		End	
Item	Flood Pre	paredness &	Training			0	
пеш	tem				٥		0
DWR ID	DWR_RD0	900_01_s _ 201	13_16				
		Comn	nent Coc	le			
							Τ
	Inspector Comment						
	The crews in this LMA have taken the flood fighting training course provided by DWR.						

No Photos

LM Start	2.00	Rating **	A/W	Issue No.		1
LM End	2.25	Issue Type +	Ma	Location *	CR	
Catagory	Category Earthen Levee			GPS Latitude/Longitude		
Calegory	ategory			Start		End
Item	Vegetation			38.5592	02°	38.555462°
item				-121.5177	07°	-121.516297°
DWR ID DWR_RD0900_01_s _ 2012_1						
		Comn	ant Car	ام		

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

USACE has started to construct a setback levee in this area and has taken control of this portion of the levee.

Photo 1 of 1: FA_2016_RD0900_230_1_20160823_00001.jpg



View of the new setback levee looking downstream during fall 2014 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	2.26	Rating **	A/W	Issue No.		17
LM End	3.72	Issue Type +	Ма	Location *		WS
Earthen Levee				GPS La	atitud	le/Longitude
Category				Start		End
Vegetation Item				38.5553	04°	38.536946°
					-121.519774°	
DWR ID DWR_RD0900_01_s _ 2012_17						
		Comn	nent Cod	de		
V8 : Enviro	onmental F	Requirements.				
		la a a a at				
		Inspecto	or Comm	ient		



View of the DWR environmental mitigation site.

LM Start	2.35	Rating **	М	Issue No.		10
LM End	2.47	Issue Type +	Ma	Location *		WS
Category			GPS Latitude/Longitude			
Calegory			Start		End	
Item	2015 USACE Erosion Survey,			38.5542	77°	38.552504°
item	DRAFT			-121.5152	63°	-121.514752°
DWR ID	DWR_RD0	6_10				
		Comn	nent Cod	de		

Inspector Comment

2007 - Have good berm width with minor toe erosion. Close to the levee toe protection, but levee slope is steep. 2011 - New large erosion pocket. 2012 - Minor new erosion at the toe. 2015: No observed changes. [2015 Site ID: SAC_56-7_R]



USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	2.55	Rating **	М	Issue No.	9		
LM End	2.64	Issue Type +	Ma	Location *		WS	
Catagory	Supplemental			GPS Latitude/Longitude			
Calegory						End	
Item		CE Erosion S	Survey,	38.5513	19°	38.550090°	
пеш	DRAFT	DRAFT			23 °	-121.513983°	
DWR ID DWR_RD0900_01_s _ 2016_9							
	Comment Code						

Inspector Comment

1997 - Low berm is contributing to erosion. Old timber pile dikes above water parallel to bank. The upstream mitigation low berm causes a flow separation at the site. 1999 - Some new localized erosion with less thank one foot of bank retreat. 2000 - Some new erosion at the upstream end. Fat toe deposits at toe. 2003 - Some new erosion upstream, but have a wide berm. 2011 - Minor new erosion at toe. 2015: No observed changes. [2015 Site ID: SAC_56-5_R]



USACE 2013 Photo #1

LM Start	2.92	Rating **	Α	Issue No.		61		
LM End	2.92	Issue Type +	Ma	Location *		LS		
Category	Category Earthen Levee			GPS Latitude/Longitude				
Calegory	y			Start		End		
Item	Vegetatio	n		38.5462	13°	38.546213 °		
пеш			-121.5127	05°	-121.512705°			
DWR ID DWR_RD0900_01_f _ 2016_61								

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Acceptable vegetation.

Photo 1 of 1: FA_2016_RD0900_230_61_20161010_00031.jpg



View of the landside of the levee looking downstream. Fall 2016

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	3.27	Rating **	М	Issue No.	2				
LM End	3.48	Issue Type +	Ma	Location *	WS				
Category	Supplemental				GPS Latitude/Longitude				
Calegory				Start		End			
Item		CE Erosion S	Survey,	38.5412	46°	38.538689 °			
пеш	DRAFT			-121.5135	61 °	-121.515916 °			
DWR ID	DWR_RD0900_01_s _ 2016_2								
Comment Code									

Inspector Comment

2008 - Erosion into levee toe. Over steepened levee slope, worst at the upstream end. 2009 - Near vertical banks from rotational slumping, hidden by vegetation. 2010 - Boat sinking more, may be causing eddy scour around it. Difficult to see the vertical slumps due to dense vegetation. 2011 - Minor new erosion at the toe. The paddleboat that was sitting at this site for years has been removed. 2012 - Site extended upstream due to additional erosion. 2015: No observed changes. [2015 Site ID: SAC_55-7_R]



USACE 2013 Photo #1

LM Start	3.41	Rating **	М	Issue No.	4		
LM End	3.41	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End		
Item	Slope Sta	bility		38.5397	70°	38.539770°	
item						-121.515276°	
DWR ID	ID DWR_RD0900_01_s _ 2014_4						
		0		L.			

Comment Code

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment



Photo 1 of 2: FA_2016_RD0900_230_4_20160823_00003.jpg

Updated picture of the slope instability on the waterside of the levee looking downstream during spring 2016 inspection.

Page 6 of 14

Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	3.41	Rating **	М	Issue No.		4 (cont)	
LM End	3.41	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	bility		38.5397	70°	38.539770°		
пеш	item					-121.515276°	
DWR ID DWR_RD0900_01_s _ 2014_4							
		Comn	nent Cod	de			
S2 : Repai where pos		slope damag	jed by fo	ot traffic an	d pr	event access	
		Inspecto	or Comm	nent			



A slope instability was found on the waterside slope of the levee looking downstream.

LM Start	3.45	Rating **	С	Issue No.		63	
LM End	3.45	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS La	titud	e/Longitude	
Calegory				Start		End	
Item	Encroachi	ments		38.5393	68°	38.539368°	
item				-121.515839°		-121.515839°	
DWR ID DWR_RD0900_01_s _ 2016_63							
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspecto	or Comm	nent			

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	4.04	Rating **	M	Issue No.		327	
LM End	4.04	Issue Type +	Ma	Location *		LS	
Category	evee	GPS La	atitud	e/Longitude			
Calegory				Start		End	
Item	Encroachi	ments		38.5347	59°	38.534759°	
						-121.524902 °	
DWR ID DWR_RD0900_01_s _ 2012_327							
		Comn	nent Cod	de			
DE : Debri	s						
		luana a ata	0				
		Inspecto	or Comm	ient			



Concrete debris were found on the landside of the levee looking upstream.

LM Start	4.10	Rating **	М	Issue No.		54			
LM End	4.10	Issue Type +	Ma	Location *		LS			
Category Earthen Levee				GPS Latitude/Longitude					
Category			Start		End				
Item	Encroachments 38.534364 ° 38.53								
item				-121.526051 ° -121.5260					
DWR ID DWR_RD0900_01_s _ 2012_54									
		Comn	nent Cod	de					
DE : Debri	S								
			_						
		Inspecto	or Comm	nent					
Concrete of	lebris with	metal posing	a safety	risk.					

Photo 1 of 1 : FA_2016_RD0900_230_54_20160823_00014.jpg



View of concrete debris with metal looking upstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	4.95	Rating **	М	Issue No.	330				
LM End	4.95	Issue Type +	Ma	Location *	WS				
Category	evee	GPS La	atitud	e/Longitude					
Calegory				Start		End			
Item	Encroachments 38.524898 ° 38.52489								
item				-121.5296	121.529674 ° -121.52967				
DWR ID DWR_RD0900_01_s _ 2012_330									
		Comn	nent Cod	de					
DE : Debri	is								
			•						
		Inspecto	or Comm	nent					



Concrete anchor was found on the waterside slope of the levee looking upstream.

LM Start	5.39	Rating **	М	Issue No.	335			
LM End	5.39	Issue Type +	Ма	Location *	WS			
Category	evee	GPS La	atitud	e/Longitude				
Odlogory				Start		End		
Item	Vegetatio	n		38.5200)22°	38.520022 °		
item				-121.525899 ° -121.5258				
DWR ID	DWR_RD0	900_01_s _ 201	2_335					
		Comn	nent Cod	de				
V4 : Elderb	perries are	blocking visib	ility and	flood fight	capa	bility.		
Inspector Comment								
Elderberrie	Elderberries are partially blocking the visibility.							



View of elderberry bush on the waterside of the levee looking upstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	5.51	Rating **	М	Issue No.		958		
LM End	5.51	Issue Type +	Ma	Location *	LS			
Category	Earthen L	evee	GPS Latitude/Longitude					
Calegory				Start		End		
Item	Vegetatio	า		38.5189	88°	38.518988 °		
пеш		-121.527738° -121.52						
DWR ID DWR_RD0900_01_s _ 2012_958								
		Comn	nent Cod	de				
V4 : Elderk	perries are	blocking visib	ility and	flood fight	сара	bility.		
		Inspecto	or Comm	nent				
Elderberries are partially blocking the visibility.								



Elderberry on the landside of the levee. The picture was taken from the crown looking downstream.

LM Start	5.52	Rating **	М	Issue No.		52		
LM End	5.52	Issue Type +	Ма	Location *		LS		
Category	evee	GPS La	atitud	e/Longitude				
Category				Start		End		
Item	Vegetatio	n		38.5188	83°	38.518883°		
item				-121.5278	00°	-121.527800°		
DWR ID	DWR_RD0	900_01_s _ 201	2_52					
		Comn	nent Coo	de				
V4 : Elderk	perries are	blocking visib	ility and	flood fight	сара	bility.		
			_					
		Inspecto	or Comm	nent				
Elderberries are partially blocking the visibility.								
	·							

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	5.57	Rating **	N	Issue No.		64	
LM End	5.57	Issue Type +	Ма	Location *	LS		
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		38.5186	654°	38.518654°	
iteiii				-121.528685 ° -121.5286			
DWR ID DWR_RD0900_01_s _ 2016_64							
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
		Inspecto	or Comm	nent			



View of a tree stump on the landside of the levee looking downstream.

LM Start	5.95	Rating **	М	Issue No.		25		
LM End	5.96	Issue Type +	Ma	Location *		LS		
Earthen Levee				GPS L	atitud	e/Longitude		
Category				Start		End		
Item	Vegetatio	n		38.5179)52°	38.517948°		
пеш				-121.535672 °		-121.535857°		
DWR ID	DWR_RD0	900_01_s _ 201	2_25					
		Comn	nent Cod	de				
V4 : Elderl	berries are	blocking visit	ility and	flood fight	сара	bility.		
		Inspecto	or Comm	nent				
Elderberrie	Elderberries are partially blocking the visibility.							



Elderberry located on the landside of the levee obstructing the view. The picture was taken from the crown looking downstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

I M Ctout	6.87	Rating **	М	Issue No.		62	
LM Start	0.07	Rating	IVI	13306 110.			
LM End	6.87	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Animal Control				974°	38.514974°	
item				-121.552041 °		-121.552041 °	
DWR ID	DWR_RD0	900_01_f _ 201	6_62				
		Comn	nent Cod	de			
A3 : No ro compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and	
		Inspecto	or Comm	nent			



View of a rodent hole on the waterside of the levee.

LM Start	7.10	Rating **	М	Issue No.		343			
LM End	7.10	Issue Type +	Ма	Location *	LS				
Catagory	evee	GPS La	atitud	le/Longitude					
Category				Start		End			
Item	Encroach	ments		38.5126	42°	38.512642 °			
пеш				-121.5548	81 °	-121.554881 °			
DWR ID	DWR ID DWR_RD0900_01_s _ 2012_343								
		Comn	nent Cod	de					
DE : Debri	s								
		Inspect	or Comm	nent					
Concrete of	debris from	old railroad t	rack.						



Concrete debris from old rail road track was found on the landside of the levee looking upstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	7.21	Rating **	М	Issue No.		8		
LM End	7.21	Issue Type +	Ma	Location *		LS		
Cotogony	Earthen L	evee		GPS Latitude/Longitude				
Category				Start		End		
Item	Vegetatio	n		38.5111	04°	38.511104°		
пеш			-121.555664 °		-121.555664°			
DWR ID DWR_RD0900_01_s _ 2012_8								
		Comn	nent Coo	de				
V4 : Elderl	perries are	blocking visib	ility and	flood fight	capa	ability.		
		Inspecto	or Comm	nent				
Elderberrie	es are part	ially blocking	the visibi	lity.				



An elderberry bush was found on the landside of the levee looking downstream.

LM Start	7.25	Rating **	М	Issue No.		7			
LM End	7.25	Issue Type +	Ma	Location *		LS			
Category Earthen Levee				GPS Latitude/Longitude					
Category				Start		End			
Item	Vegetation	n	13°	38.510613°					
item				-121.5559	69°	-121.555969 °			
DWR ID	DWR_RD0	900_01_s _ 201	2_7						
		Comn	nent Cod	de					
V4 : Elderl	perries are	blocking visib	ility and	flood fight	сара	ability.			
		Inspecto	or Comm	nent					
Elderberries are partially blocking the visibility.									



View of elderberries on the landward slope looking upstream.

Page 13 of 14

Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	7.47	Rating **	М	Issue No.		59
LM End	7.47	Issue Type +	Ma	Location *		WS
Category	evee	GPS La	atitud	e/Longitude		
Calegory				Start		End
Item	Vegetation			38.5076	648°	38.507648°
item			-121.5575	71°	-121.557571 °	
DWR ID DWR_RD0900_01_f _ 2012_59						
		Comn	nent Cod	de		
V2 : Remo	ve the wild	d growth other	than na	tive grasse	s fro	m the levee
		Inspecto	or Comm	nent		
Arrundo growth on the waterside slope of the levee.						

THE STATE OF THE S	Marketon -		-4
		10/0	7/2016

Photo 1 of 2: FA_2016_RD0900_230_59_20161010_00033.jpg

Updated picture of the arundo on the waterside of the levee during fall 2016 inspection.

 LM Start
 7.47
 Rating **
 M
 Issue No.
 59 (cont)

 LM End
 7.47
 Issue Type +
 Ma
 Location *
 WS

Photo 2 of 2: FA_2016_RD0900_230_59_20160823_00015.jpg



Updated picture of the arundo on the waterside of the levee during spring 2016 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	7.78	Rating **	М	Issue No.		15
LM End	7.78	Issue Type +	Ma	Location *		WS
Earthen Levee				GPS La	atitud	le/Longitude
Category				Start		End
Item	Vegetatio		38.5034	90°	38.503490°	
item				-121.559770°		-121.559770 °
DWR ID DWR_RD0900_01_f _ 2013_15						
		Comn	nent Cod	le		
V2 : Remove the wild growth other than native grasses from the levee slopes.						
		Inspecto	or Comm	ent		
Arrundo on the waterside						

04/05/2010

Photo 1 of 2: FA_2016_RD0900_230_15_20160823_00009.jpg

Updated picture of the arundo on the waterside of the levee during spring 2016 inspection.

Photo 2 of 2: FA_2016_RD0900_230_15_20160823_00010.jpg



View of arundo on the waterside of the levee looking downstream.

LM Start	7.78	Rating **	М	Issue No.	15 (cont)
LM End	7.78	Issue Type +	Ma	Location *	WS

LS : Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	5.26	10/06/2016 10/06/2016	Pavel Kazi

LM Start	0.09	Rating **	Α	Issue No.		44	
LM End	0.09	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory		Start		End			
Item	Vegetation			38.5809	61°	38.580961°	
пеш				-121.5682	22°	-121.568222°	
DWR ID DWR_RD0900_02_f _ 2016_44							
		Comn	nent Cod	de			
V1 : Contre		grass and wee	ds on th	e levee slop	pes a	and	
		Inspecto	or Comm	nent			
Acceptable vegetation.							



View of the landside of the levee looking downstream. Fall 2016

LM Start	3.26	Rating **	М	Issue No.		15
LM End	3.26	Issue Type +	Ma	Location *		LS
Catagory Earthen Levee				GPS La	atitud	e/Longitude
Category				Start		End
Item	Encroachments			38.5409	943°	38.540943 °
пеш				-121.5822	° 082	-121.582280 °
DWR ID	DWR_RD0	900_02_s _ 201	2_15			
		Comn	nent Coc	le		
PI : Pipe						
		Inspecto	or Comm	ent		
Recently removed waterward pump. Some pipe, equipment and debris remain.						



Abandon pipes and debris was found on the landside of the levee looking upstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	5.26	10/06/2016 10/06/2016	Pavel Kazi

LM Start	5.04	Rating **	М	Issue No.		45
LM End	5.04	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Encroachments			38.5150	91°	38.515091 °
пеш				-121.582178°		-121.582178 °
DWR ID DWR_RD0900_02_f _ 2016_45						
		Comn	nent Cod	de		
DE : Debri	s					
		Inspecto	or Comm	nent		



View of debris on the landside shoulder of the levee looking upstream.